Project Number:	Tracking Code: TC0910--2307_ReportRev2		
Requested by: Joe Smallwood	Date: 8/3/2009	Product Rev: K	
Part #: HPSTP-29-0500-S-S	Lot #: 030609	Tech: Rodney Riley	Eng: Troy Cook
Part description: HS Cable			Qty to test: 40
Test Start: 4/09/2009	Test Completed: 4/20/2009		

35° FLEX TEST REPORT

PART DESCRIPTION

HPSTP-29-0500-S-S

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to IS0 10012-l and ANSI/NCSL 2540-1, as applicable.

SCOPE

To perform the following tests: DVT Flex Testing 35°

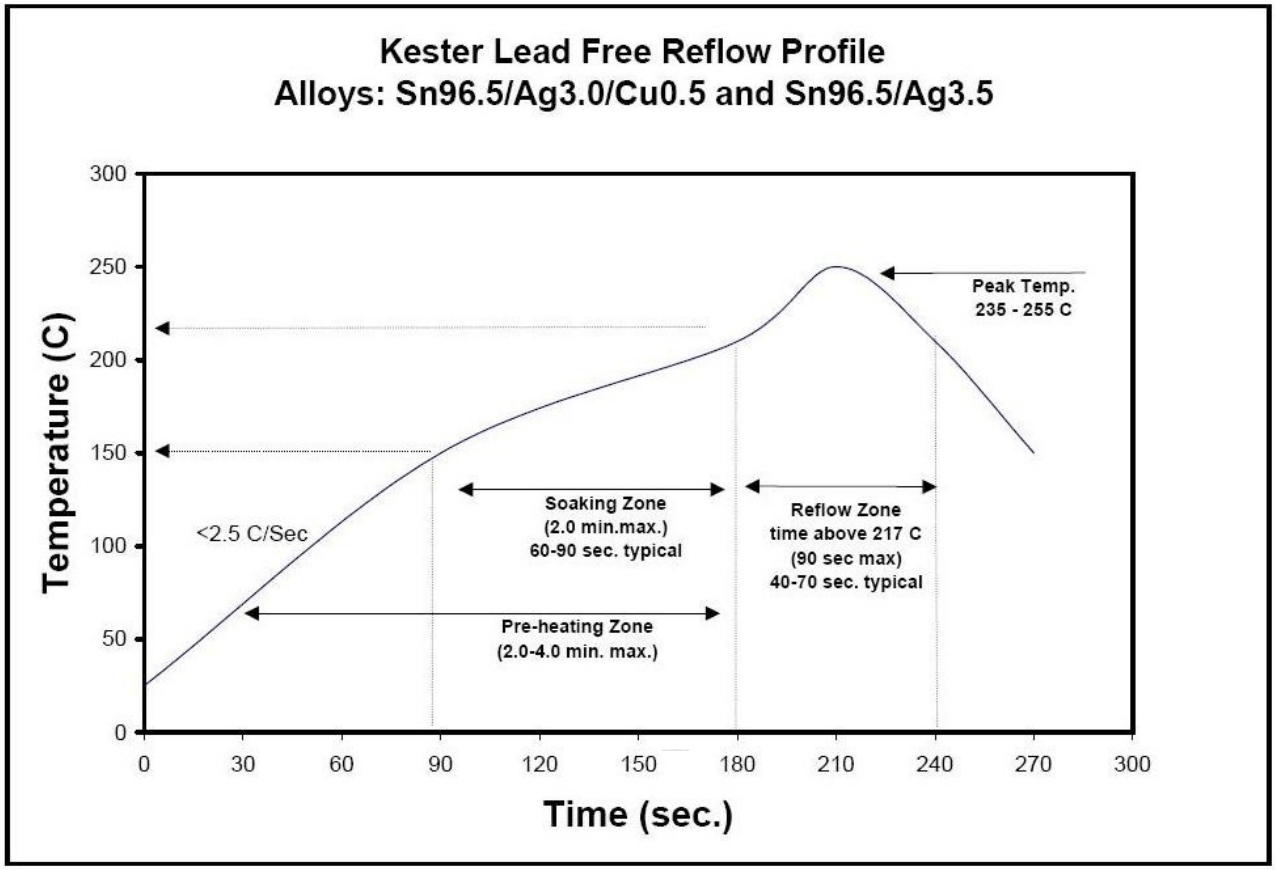
APPLICABLE DOCUMENTS

Standards: EIA Publication 364

TEST SAMPLES AND PREPARATION

1) All materials were manufactured in accordance with the applicable product specification.
2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
3) After soldering, the parts to be used for LLCR and DWV/IR testing were cleaned according to TLWI-0001.
4) Either an automated cleaning procedure or an ultrasonic cleaning procedure may be used.
5) The automated procedure is used with aqueous compatible soldering materials.
6) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
7) Any additional preparation will be noted in the individual test sequences.
8) Solder Information: Lead Free
9) Re-Flow Time/Temp: See accompanying profile.
10) Samtec Test PCBs used: PCB-101763-TST-XX

TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)



FLOWCHARTS

Flex/Resistance/SIG Contiinuity

TEST	GROUP 1A
STEP	DV End 35°
	SIG
01	Resistance
02	1000 Cycles
03	Resistance
04	Data Review
05	2000 Cycles
06	Resistance
07	Data Review
08	3000 Cycles
09	Resistance
10	Data Review
11	4000 Cycles
12	Resistance
13	Data Review
14	5000 Cycles
15	Resistance

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

CABLE DURABILITY:

1) Oscillate and monitor electrical continuity for open circuit indication.
   a. ± 35° Pendulum Mode, bend up to 5,000 cycles with 8 oz. load on cable end.

Fig. 2
(Typical set-up, actual part depicted.)

RESULTS

RESISTANCE:

35 DEGREE	Resistance, Ohms					
	Initial	After 1000	After 2000	After 3000	After 4000	After 5000
Avg	3.6	3.5	3.6	3.6	3.5	3.6
Min	3.4	3.4	3.4	3.4	3.3	3.4
Max	4.1	3.6	3.7	3.8	3.7	3.7
St. Dev.	0.2	0.1	0.1	0.1	0.1	0.1
Count	10	10	10	10	10	10

DATA

35 DEGREE

Resistance, mOhms						
Cable	**Initial**	**After 1000 Cycles**	**After 2000 Cycles**	**After 3000 Cycles**	**After 4000 Cycles**	**After 5000 Cycles**
1	3.6	*3.5*	3.7	3.6	3.5	3.4
2	3.6	*3.4*	3.6	3.6	3.4	3.4
3	3.5	3.4	*3.4*	3.5	3.6	3.5
4	3.4	*3.4*	3.5	3.4	3.3	3.7
5	3.8	*3.5*	3.6	3.8	3.7	3.4
6	3.5	*3.6*	3.6	3.6	3.6	3.6
7	3.6	*3.6*	*3.5*	*3.5*	3.6	3.6
8	4.1	*3.5*	3.5	3.5	*3.5*	3.5
9	3.6	*3.6*	3.6	3.7	*3.6*	3.6
10	3.6	*3.6*	3.6	3.6	3.6	3.8

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: MM-01
Description: True RMS Multimeter
Manufacturer: Fluke
Model: 87 III
Serial #: 74660176
Accuracy: See Manual
… Last Cal: 06/14/07, Next Cal: 06/14/08

Equipment #: HDR - 01
Description: HDR Flex Tester
Manufacturer: Samtec Inc.
Model: AT-1440-000
Serial #: AT-1440-000
Accuracy: N/A
… Last Cal: No Calibration Required